

Work Order ID 68436

Wednesday, April 13, 2011 11:24:46 AM

**PRELIMINARY ISSUE**

Page 1

Item ID: D4354-041

Accept



Setup Start



Revision ID: PRELIM

Item Name: Bearpaw Wearplate Assembly

Stop



Start Date: 4/13/2011 Start Qty: 2.00



Cust Item ID:

Required Date: 4/19/2011 Req'd Qty: 2.00



Customer:



Reference:

Approvals:

Process Plan: PA1Date: 4-13-11 Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D4354	PA1

100

0.00



Waterjet

Memo

0.00

FLOW CNC Waterjet

1-Cut as per Dwg (D4354-1)

Dwg Rev: PA1Prog Rev: PA1

2-Deburr if necessary

B11-4-13(2)

110

QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Memo

0.00

Quality Control

B11-4-13

✓

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 68436

Wednesday, April 13, 2011 11:24:46 AM

Page 2

Item ID: D4354-041

Accept

Revision ID: PRELIM

Item Name: Bearpaw Wearplate Assembly

Start Date: 4/13/2011 Start Qty: 2.00

Required Date: 4/19/2011 Req'd Qty: 2.00

Reference:

Cust Item ID:

Customer:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC8- Inspect parts - second check

0.00

QC

Memo

110414 Qty 2
per PA 1
JM-03 ven

0.00

Quality Control

130

0.00

Large Fab

Memo

1- Weld cups as per dwg
A/R S.S. ROD BATCH: M114509.

0.00

2- Apply hardfacing on wearplate as indicated on dwg
A/R HARDCOAT 2059B BATCH: M117189

140

QC5- Inspect part completeness to step on W/O

0.00

QC

Memo

1 per PA 1
April 14

0.00

Quality Control

W/O:		WORK ORDER CHANGES					
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Work Order ID 68436

Wednesday, April 13, 2011 11:24:46 AM

Page 3

Item ID:	D4354-041	Accept		Setup	Start	
Revision ID:	PRELIM				Stop	
Item Name:	Bearpaw Wearplate Assembly					
Start Date:	4/13/2011	Start Qty:	2.00		Cust Item ID:	
Required Date:	4/19/2011	Req'd Qty:	2.00		Customer:	
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150  QC Quality Control	QC9- Insp visual per QS1004- Fusion Welds Memo	0.00 0.00							
160  Packaging Packaging	Identify as per dwg & Stock Location: <u>enky</u> Memo	0.00 0.00							
170  QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.00							

Handwritten notes and stamps:

- 11.04.15* (written diagonally)
- 11.04.21* (written diagonally)
- 202381* (written vertically)
- Please have a look*
- PAI had no material thickness*
- Also states to mask hex portions, but no powercoating?*
- Removed at Rev A*
- POSITIVE RECALL**
- EFFECTIVE 11/14/14 AUTH [Signature]
- RELEASED [Signature] DATE 11/06/02
- Scrap Eng lab*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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NOTE: Date & initial all entries

Picklist Print

Wednesday, April 13, 2011 11:24:52 AM

Page 1

Work Order ID: 68436



Parent Item: D4354-041



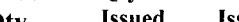



Parent Item Name: Bearpaw Wearplate Assembly

Start Date: 4/13/2011**Required Date:** 4/19/2011

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 11.04.11 NEW ISSUE DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S16GA 		Purchased	No			100	SF	240.0000	0.9223	1.941684			
304/316 Sheet .063										B11-4-13			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MAT020		240							
				117275		240				17275			(2)
D4379-1 		Manufactured	No			130	Each	0.0000	10	20			
Wearplate Cup										E 11-4-14			

B68438 x10.

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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DART AEROSPACE LTD		Work Order: 68436
Description: BEAR PAW WHEELPATE ASS		Part Number: D4354-041
Inspection Dwg: D4354-1, Rev: PA1		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☒ Prototype

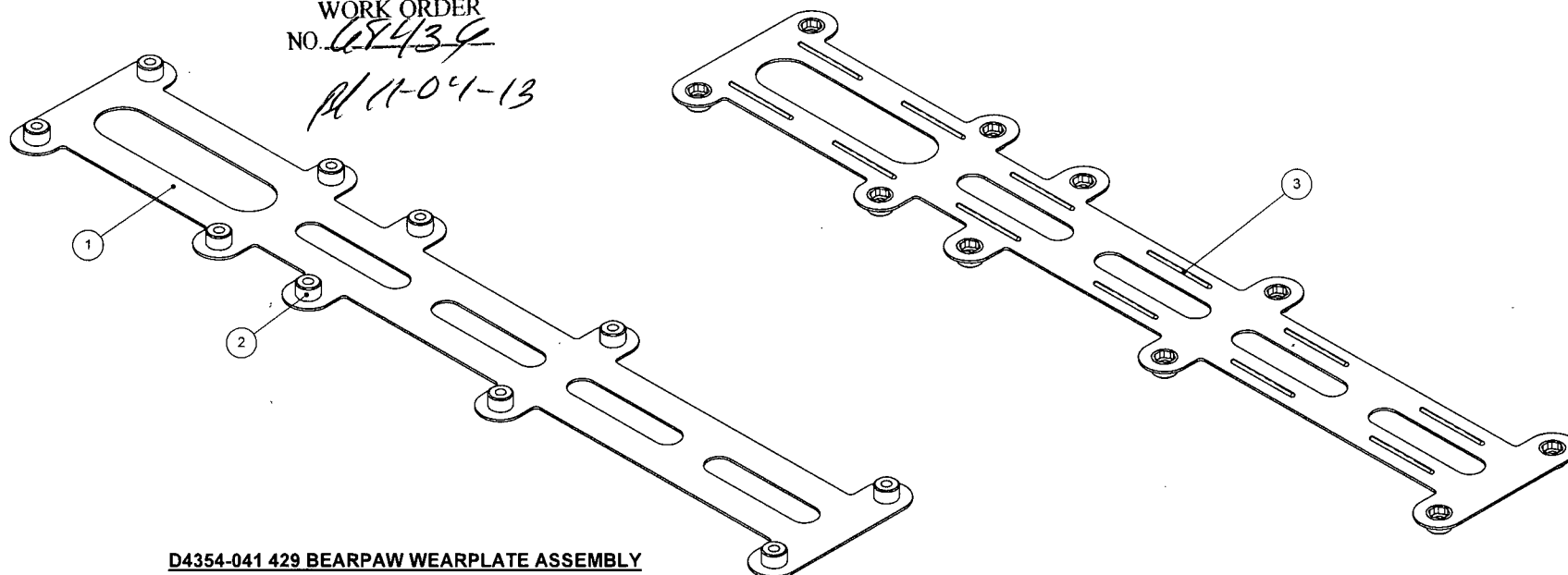
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø .625	+ .008 - .001	.625	✓		V B02	
1.38	± .030	1.372	✓		V	
.75	± .030	.743	✓		V	
1.65	± .030	1.65	✓		V	
1.906	± .010	1.906	✓		V	
2.88	± .030	2.88	✓		V	
1.25	± .030	1.252	✓		V	
26.25	± .030	26.25	✓		T B01	
1.31	± .030	1.31	✓		V	
5.06	± .030	5.062	✓		V	
25.625	± .010	25.625	✓		T	
21.88	± .030	21.88	✓		T	
17.25	± .030	17.25	✓		T	
16.375	± .010	16.375	✓		T	
12.63	± .030	12.63	✓		T	
9.813	± .010	9.813	✓		T	
8.00	± .030	8.00	✓		T	
6.156	± .010	6.148	✓		T	
4.25	± .030	4.25	✓		T	
.063	± .010	.057	✓	✓	✓	

Measured by: RB	Audited by: [Signature]	Prototype Approval:
Date: 11-4-13	Date: 11/04/14	Date:

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. *68434*

PL 11-04-13



D4354-041 429 BEARPAW WEARPLATE ASSEMBLY

ITEM	QTY -041	P/N	DESCRIPTION
	X	D4354-041	429 BEARPAW WEARPLATE ASSEMBLY
1	1	D4354-1	429 BEARPAW WEARPLATE
2	10	D4379-1	WEARPLATE CUP
3	A/R	2059B	HARDCOAT

NOTES:

- ? ss. 063?*
- 1) MATERIAL: N/A
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4354-041" AND B/N "BXXXXX"
PER DART QSI 044 6.1 (FINE POINT MARKER)
 - 7) WEIGHT: 1.44 lbs
 - 8) WELDING: PER QSI 004
 - 9) 2059B HARDCOAT WELD, 12 PL
 - 10) MASK HEXAGONAL OPENINGS (10 PL) PRIOR TO FINISHING

PRELIMINARY A1
11.03.30 AJS

PA1	PRELIMINARY	AJS	11.03.30
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		D4354	SHEET 1 OF 3
APPROVED		TITLE	SCALE
DE APPR.		429 BEARPAW WEARPLATE ASSEMBLY	NTS
DATE	11.03.30	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

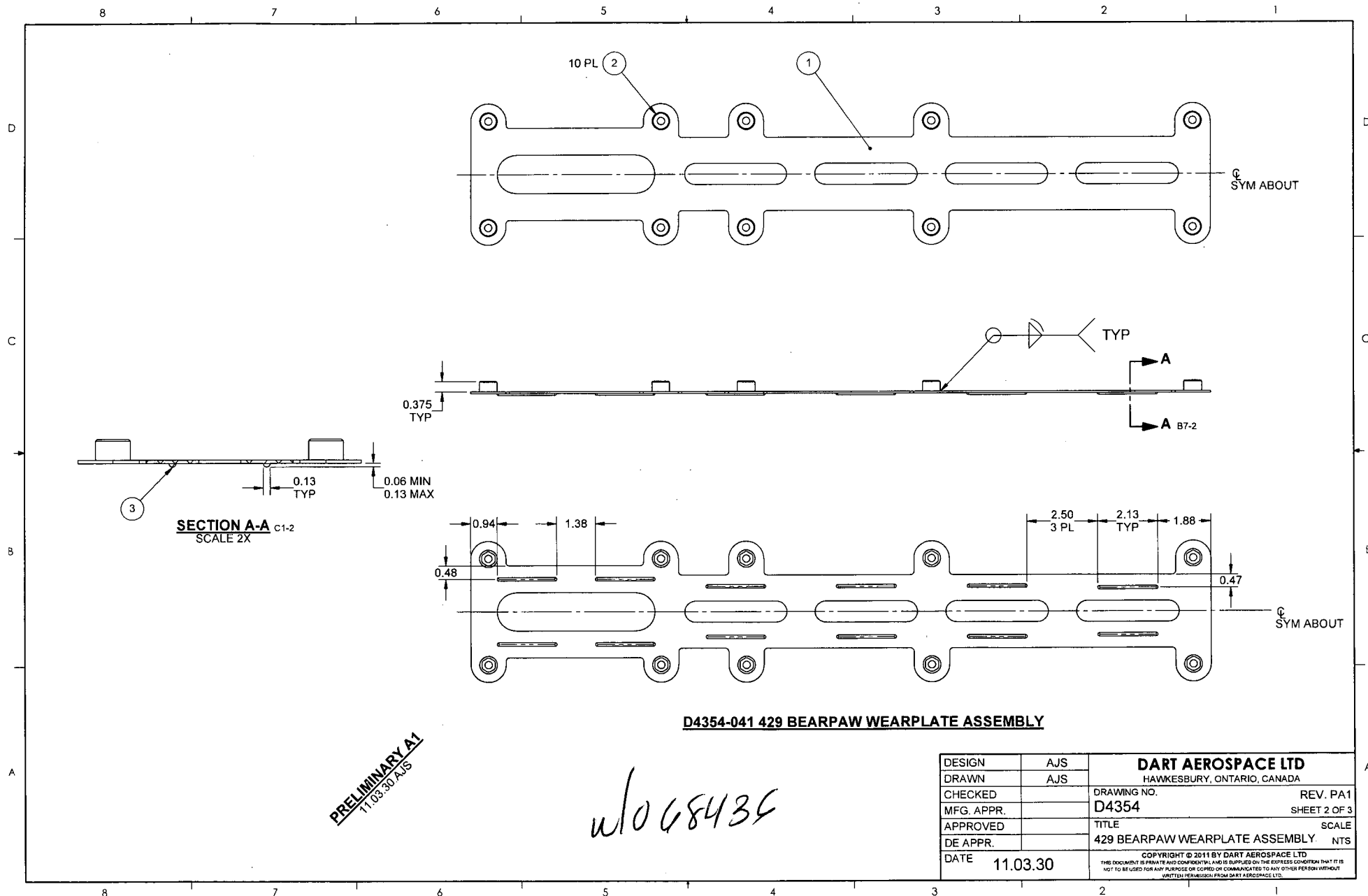
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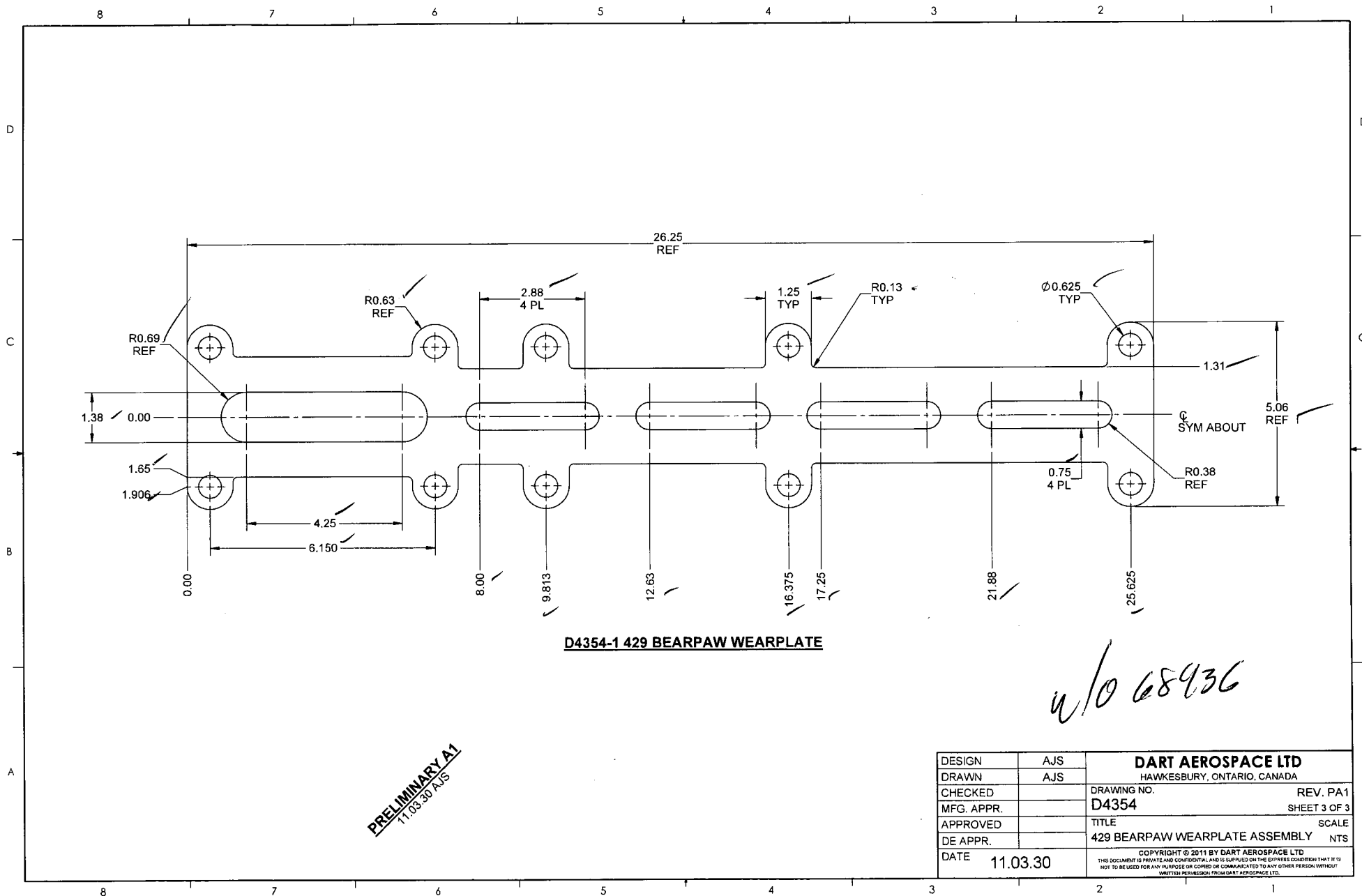
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Receiving Report

Date: 11/4/01 Batch No: M11 7275
 Supplier: THYOSAK Dart P/O: 13724

Packing Slip: Yes ☒ No ☐ Release Note Attached: Yes ☒ No ☐ N/A ☐
 Invoice: Yes ☐ No ☒ Waybill Attached: Yes ☐ No ☒ N/A ☐
 Receipt: Cash ☐ Cr ☒ Shipment Complete: Yes ☐ No ☒ N/A ☐
 QC6 Inspection ☒ N/A ☐
 Work Order u/c 60608 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M60611	620625	60	0	0	60	
M174B	1-200 X 0.200	636	0	0	32	

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 11/4/01
 Date: 11/4/01
 Received/Costing: [Signature]
 Initial: [Signature] Location _____

All amounts are calculated in domestic currency.

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO13724	1		M304S16GA	sf	4/11/2011	4/1/2011	320.0000	\$5.59	0.0000	0	\$1,788.22
CAD	No		304/316 Sheet .063	sf	320.0000	DESJ02		\$1,788.22	0.0000	0	
			117275								
	2		M6061T6B2.000X01. f		4/11/2011	4/1/2011	24.0000	\$10.33	0.0000	0	\$248.00
			250								
	No		6061-T6 Bar 2.00 x	f	24.0000	DESJ02		\$248.00	0.0000	0	
			1.25								
			117275								
Total Received Quantity:										344.0000	
Total Qty to Inspect (PO U/M):										0.0000	
Total Reject Quantity:										0.0000	
Total Receipt Value:										\$2,036.22	
Total Balance Due Quantity:										0.0000	

B I L L O F L A D I N G

No: PEC 703912

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 30Mar11 at 15:40 From PFW
Probill
Via TRANSFER TRUCK
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: 1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-315952- 1 Your PO # 13724
ALUMINUM PLATE 6061-T651
1.250" THICK X 2.0000" X 144.0000"

Heat Number Tag No
534495A7 179368

Quantity
4.00 SFT

PCS 2 MTR'S Wt LBS
75

2) Our Order PEC-315952- 2 Your PO # 13724
STAINLESS STEEL SHEET 304-2B
.0600 Nom X 48.0000" X 96.0000"

Heat Number Tag No
YU162515 178860

Quantity
320.00 SFT

PCS 10 MTR'S Wt LBS
802

TOTAL:

Tags 2 PCS 12

Wt LBS
877

Heat Number
534495A7
YU162515

*** Chemical Analysis ***

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA
** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL (1,2) 1 BDL, 1 SKID GW. 930 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

No: PEC 703912

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 30Mar11 at 15:40 From PFW
Probill
Via TRANSFER TRUCK
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$15.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER AS OF DEC 8/08.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
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RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

BILL OF LADING

No: PEC 703912

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THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 30Mar11 at 15:40 From PFW
Probill
Via TRANSFER TRUCK
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

BILL OF LADING

CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL: 800-926-2600 ****

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

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MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLATE 6061-T651
1.250" THICK X 2.0000" X 144.0000"
PART NO:

PO/Ref 13734

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-703912-001

30Mar11

Pg 1/2

Signed by:

SHIP TO:

THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF RD.
CONCORD, ON, CA L4K 5C6

**KAISER
ALUMINUM**

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2588

CERTIFIED TEST REPORT

Serial Number

4214848

SOLD TO:

THYSSENKRUPP MATERIALS NA
MATERIALS CA LTD.
2821 LANGSTAFF ROAD
CONCORD, ON, CA L4K 5C6

CUSTOMER PO NUMBER: PEC-227082		WORK PACKAGE:		CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 101963/3		GOVT CONTRACT NUMBER:		
KAISER ORDER NO: 1109881		LINE ITEM: 1	SHIP DATE: 11-JAN-2011	ALLOY: 6061	CLAD: BARE	TEMPER: T651	PRODUCT DESCRIPTION: KaiserSelect® Precision Plate			
WEIGHT SHIPPED: 4400 LB		QUANTITY: 5 PCS EST.		B/L NUMBER: 2030399		GAUGE: 1.2500 IN		DIAMETER/WIDTH: 48.500 IN		LENGTH: 144.500 IN

Certified Specifications

AMS 4027/RevN

ASME SB 209/Rev2004

ASTM B 209/Rev07

Test Code: 1511

Test Results

Lot: 634485A7 Cast 806

Drop 98

Ingot 2

(ASTM B9/B557)

(EN 2002-1)

Tensile:	Temper	Dlr / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	47.1 : 47.8 (325 : 330)	42.6 : 43.0 (294 : 296)	14.7 : 14.7

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.68	0.5	0.27	0.06	1.0	0.16	0.21	0.01	0.01	0.00	TOT 0.04

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
6061 MIN	0.40	0.0	0.15	0.00	0.8	0.04	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

TEST NOTES

6061 sheet or plate certified to AMS 4025, AMS 4026, or AMS
4027 also meets applicable requirements of AMS-QQ-A-250/11
Rev.A.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLATE 6061-T651
1'X6" THICK X 2.0000" X 144.0000"
PART NO.

PO/Ref 13724

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL REC-763912-001

30Mar11

Pg 2/2

Signed by:

**KAISER
ALUMINUM**

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4214848

CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA OR A QUALIFYING COUNTRY PER DARS 226-872-11a, WAS MANUFACTURED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF DARS 226-226 FOR DOMESTIC CONTENT. THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTIRE ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW, 18U-8001.2003 CERTIFIED.

BILL POYNOR, LABORATORIES SUPERVISOR



Page 2 of 2

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET 304-2B
0600 Nom X 48.0000" X 96.0000"

PART NO.

PO/Ref 13724

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results


BL PEC-703912-002

30Mar11

Pg 1/1

Signed by:

MILL TEST CERTIFICATES

 YIEH MAU CORP.

INVOICE NO.: M10M927-1
COMMODITY: PRIME COLD ROLLED STAINLESS STEEL SHEET

SPECIFICATION: AISI 304 ASTM A240/A480 and ASME SA240/SA480
CUSTOMER: OLBERT METAL SALES LIMITED

355 SHUN AN RD. LIAOCHUANG
KAOHSIUNG TAIWAN R.O.C.
TEL: 07-6072885 FAX: 07-6973006
CERTIFICATE NO.: M10M927-1
DATE OF ISSUE: 06/02/2010

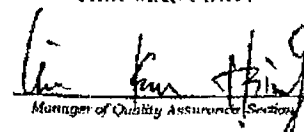
SIZE	NO.	Weight (N.W.)		Heat No.	ID NO.	Physical Properties Tensile Test CL=50mm					Chemical Composition (%)								
		KGS	LBS			Y.S. (N/mm ²) (ksi)	T.S. (N/mm ²) (ksi)	E.L. (%)	DBI	IV	C (%)	Mn (%)	P (%)	S (%)	Si (%)	Ni (%)	Cu (%)		
304 2B PI																			
11GA X 48" X 120"	1	1,623	3,589	YU162009	96S61567C-11	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7	
11GA X 48" X 120"	1	1,623	3,589	YU162009	96S61567C-12	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7	
16GA X 48" X 96"	1	1,710	3,770	YU162515	96S66092BB-3	298	624	57	79	152	5.3	46	110	36	3	804	1820	2.7	
16GA X 48" X 120"	1	1,666	3,671	YU162133	96S62953A-2	292	617	60	79	151	5	53	127	38	9	895	1812	2.6	
18GA X 48" X 120"	1	1,350	2,976	YU257404	96S61403B-6	295	657	55	85	172	4.6	51	125	36	6	811	1830	2.6	
18GA X 48" X 120"	1	1,338	2,950	YU257404	96S61403B-7	285	657	55	85	172	4.6	51	125	36	6	811	1830	2.6	
18GA X 48" X 120"	1	1,334	2,941	YU162137	97863036B-1	308	647	54	86	175	4	44	105	31	5	807	1822	3.4	
20GA X 48" X 96"	1	1,559	3,459	YU257562	96S62950BA-5	315	672	56	88	176	4.3	48	114	37	1	805	1825	3.4	
20GA X 48" X 120"	1	1,583	3,490	YU257562	96S62950BA-3	315	672	56	86	176	4.3	48	114	37	1	805	1825	3.4	
20GA X 60" X 120"	1	1,630	3,594	YU161329	95S55697B-2221	292	629	54	84	168	5.1	44	108	37	6	809	1818	2.5	
20GA X 60" X 120"	1	1,630	3,594	YU161329	95S55697B-2222	292	629	54	84	168	5.1	44	108	37	6	809	1818	2.5	
22GA X 48" X 96"	1	1,700	3,748	YU161154	95S55818A-2	291	639	55	85	170	4.3	49	122	37	4	806	1807	2.3	
22GA X 48" X 120"	1	1,652	3,642	YU161154	95S55818A-3	291	639	55	85	170	4.3	49	122	37	4	806	1807	2.3	
24GA X 48" X 120"	1	1,336	2,945	YU257156	95S59278B-1	281	616	54	86	176	1.6	37	144	34	9	804	1821	3.2	
24GA X 48" X 120"	1	1,336	2,945	YU257156	95S59278B-2	281	616	54	86	176	1.6	37	144	34	9	804	1821	3.2	
24GA X 48" X 120"	1	1,334	2,950	YU257156	95S59278B-3	281	616	54	86	176	1.6	37	144	34	9	804	1821	3.2	
304 NO.4 LASER																			
11GA X 48" X 96"	1	1,646	3,629	YU162009	96S61567B-111	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7	
11GA X 48" X 120"	1	1,631	3,596	YU162009	96S61567B-112	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7	
11GA X 48" X 120"	1	1,630	3,594	YU162009	96S61567B-113	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7	
16GA X 48" X 120"	1	1,690	3,726	YU162547	96S66094A-11	282	632	56	82	160	4.4	47	119	32	10	801	1817	2.5	
16GA X 48" X 120"	1	1,690	3,726	YU162547	96S66094A-12	282	632	56	82	160	4.4	47	119	32	10	801	1817	2.5	
22GA X 48" X 96"	1	1,746	3,849	YU161311	95S55839A-12	294	659	53	85	173	4.8	48	113	36	4	802	1822	2.4	
22GA X 48" X 120"	1	1,718	3,788	YU161311	95S55839A-13	294	659	53	85	173	4.8	48	113	36	4	802	1822	2.4	
24GA X 48" X 96"	1	1,604	3,536	YU162639	96S66747B-15	298	645	55	86	174	4.8	49	122	37	11	804	1820	1.6	
24GA X 48" X 120"	1	1,598	3,523	YU162639	96S66747B-14	298	645	55	86	174	4.8	49	122	37	11	804	1820	1.6	

TOTAL: 25 39,386 86,820

REMARKS: NO MERCURY CONTAMINATION Bend test good for all Heat NO.

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS
BEEN MADE IN ACCORDANCE WITH THE RULES OF THE MILL CERTIFICATE

YIEH MAU CORP.


Manager of Quality Assurance



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PO REPRINT

Purchase Order ID PO13724

Purchase Order Date 3/28/2011

PO Print Date 3/31/2011

Page Number 1 of 2

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

REVISED

Contact Name
Vendor Phone 905 669 9444
Vendor Fax 905 738 9033
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M304S16GA MAT0020	304/316 Sheet .063	4/11/2011 Yes	320.00 sf	Yours ppd	\$5.5882	\$1,788.22
		Special Inst: MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240					
2	M6061T6B2.000X01.250 MAT010	6061-T6 Bar 2.00 x 1.25	4/11/2011 Yes	24.00 f	Yours ppd	\$10.3333	\$248.00
		Special Inst: MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A- 225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221					
3	M6061T6R0.625	6061-T6 Round Bar .625"	4/11/2011 Yes	60.00 f	Yours ppd	\$2.5000	\$150.00

3/31/2011



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PO REPRINT

Purchase Order ID PO13724

Purchase Order Date 3/28/2011

PO Print Date 3/31/2011

Page Number 2 of 2

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name
Vendor Phone
Vendor Fax
Vendor Account Nbr

905 669 9444
905 738 9033

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Special Inst: MATERIAL: 6061-
T6/T651/T6510/T6511/T62
ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-
225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8
OR AMS 4160 OR ASTM B211 OR
ASTM B221

5	M174B1.250X02.000	17-4 SS Bar 1.250 x 2.00	4/11/2011 Yes	36.00 f	Yours ppd	\$31.8778	\$1,147.60
---	-------------------	--------------------------	------------------	------------	-----------	-----------	------------

Special Inst: MATERIAL: 17-4 PH SS BAR AS PER
AMS 5604/5643
GRAIN MUST BE ALONG LENGTH
OF BAR
MINIMUM YIELD TENSILE
STRENGTH = 100 KSI
MINIMUM ULTIMATE
TENSILESTRENGTH = 150 KSI

PO Total: \$3,333.82

MATERIAL CERTIFICATION
REQD UPON DELIVERY

CL

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 3

Change Date: 3/31/2011

03/21/11
10:24 AM EDT

STELfax

From: THYSSENKRUPP MATERIALS NA
STAN IVERS
Tel: 905 669 9444
Fax: 905 738 9033

To: DART AEROSPACE
Attn: CHANTAL
Tel: 613-632-9577
Fax: 613-632-1053
Number of Pages: 3

Subject: Quote Form

Q U O T A T I O N

No: PEC ST-313309

Quoted By:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

Quoted To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Quoted Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Qtd 21Mar11 Qte Ref
 Frt PREPAID Via FOB
 Tel 613-632-9577 Fax 613-632-1053 Ctc CHANTAL
 Stp STAN IVERS (905-532-1350)

Q U O T A T I O N

QT No: PEC ST-313309

Test Certs: Chem-Y Phys-Y 1 Original copies with Shipment, 1 with Invoice

1 ALUMINUM ROUND BAR 6061-T6511 1.250" THICK X 2.0000" X 144.0000"	2 PCS	75 LBS
SPECIFICATIONS		
Ga Tol + 0.0000 - 0.0000 Pc/Tag 2		
WthTol + 0.0630 - 0.0000 Wt/Skd		
LthTol + 0.0000 - 0.0000 Ty Pk		
MATERIAL	2 PCS @	124.0000 EA
ENERGY SURCHARGE		15.0000 LOT
2 ALUMINUM ROUND BAR 6061T6 COLD FINISH 1.625" DIA X 1.44" THICK	5 PCS	22 LBS
MATERIAL	5 PCS @	30.0000 EA
3 STAINLESS STEEL SHEET 304-2B 0.0600 Nom X 48.0000" X 96.0000"	5 PCS	401 LBS
MATERIAL	401 LBS @	2.1100 LBS
4 STAINLESS STEEL FLAT BAR 17-4 HRAP 1.50" X 2.50" X 144.0000"	2 PCS	306 LBS
Part No 4-6 DAYS A.R.O		
MATERIAL	306 LBS @	3.9100 LBS
5 STAINLESS STEEL FLAT BAR 17-4 HRAP 1.25" X 2.00" X 144.0000"	3 PCS	302 LBS
Part No 4-6 DAYS A.R.O		
MATERIAL	302 LBS @	3.8000 LBS
6 ALUMINUM TUBE 6061-T6511 3.50" OD x .375" WALL X 240.0000"	1 PCS	87 LBS
Part No 3-5 DAYS A.R.O		
MATERIAL	87 LBS @	2.9000 LBS

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT

Mid apud

Q U O T A T I O N

No: PEC ST-313309

Quoted By:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

Quoted To: (20115)
 DART AEROSPACE

Quoted Ship To: (1)
 DART AEROSPACE

Q U O T A T I O N

QT No: PEC ST-313309

WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT **

Price in effect at time of shipment.

Price based on receipt of total order.

All weights are theoretical.

All orders are subject to credit approval.

**** TEL. 800-926-2600 ****

*** CUSTOMER PICK-UP HOURS ***

*** 9:00 AM TO 4:00 PM ***

* WE STOCK STAINLESS STEEL!!!! * *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT * *

***PLEASE NOTE A \$15.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER AS OF DEC 8/08.***

Order Totals: 6 Items 1193 LBS

Material	Processing	Freight	Other	Taxes
3,840.47			15.00	501.21

Taxes: ONHSTS	501.21	0.00	0.00	0.00

Chantal Lavoie

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: March 15, 2011 2:47 PM
To: Chantal Lavoie
Subject: RE: quote

Hi Chantal,

price & delivery on material.

✓ 17-4 ph bar 1.5" x 2.250" x 24 ft ✓ \$ 77.24 Ft ~ 10 days ✓
17-4 ph bar 1.250" x 2" x 36 ft \$ 41.75 Ft 10 days

Thanks

This E-mail may contain proprietary information and may be confidential. You are to treat this material in accordance with your company's confidentiality policies and limit any distribution accordingly. If you are not the intended recipient of this E-mail, you are hereby notified that any dissemination, distribution or copying of this message is strictly prohibited. If you received this message in error, please delete it immediately.

Where Used - Single Level

Tuesday, March 15, 2011 9:42:40 AM

Page 1 of 1

Component Item ID Component Name Unit of Measure
M174B1.250X02.00 17-4 SS Bar 1.250 x 2.00 f

As of: 3/15/2011

Parent Item ID	Parent Description	Quantity Per Assembly	ECO ID	Effective Start Date	Effective Stop Date	Routing Sequence	Find Nbr
D3121-041	Bracket Assembly	0.2705		1/1/2008		140	
D3121-043	Bracket Assembly	0.2705		1/1/2008		140	
D3121-044	Bracket Assembly	0.2705		1/1/2008		140	
D3121-045	Bracket Assembly	0.2833		1/1/2008		140	
D3121-046	Bracket Assembly	0.2833		1/1/2008		140	
D3121-141	Bracket Assembly <i>askindoor naller.</i>	0.5500		1/1/2008		140	
D3121-143	Bracket Assembly	0.3680		1/1/2008		100	
D3121-144	Bracket Assembly	0.3680		1/1/2008		140	
D3121-145	Bracket Assembly	0.5562		1/1/2008		140	
D3121-146	Bracket Assembly	0.5562		1/1/2008		140	
D3674-041	BRACKET ASSEMBLY	0.5500		1/1/2008		140	

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Where Used - Single Level

Tuesday, March 15, 2011 9:43:07 AM

Page 1 of 1

Component Item ID Component Name Unit of Measure As of: 3/15/2011
MI74B1.500X02.25 17-4 SS Bar 1.50 X2.250 f

Parent Item ID	Parent Description	Quantity Per Assembly	ECO ID	Effective Start Date	Effective Stop Date	Routing Sequence	Find Nbr
D3183-043 —	Bracket Assembly	0.4583		1/1/2008		140	
D3183-044 —	Bracket Assembly	0.4583		1/1/2008		140	

248+

348+ steel

M6061T6B0.250X06.000	5.068368421	0	9.448	12
M6061T6B0.375X00.750	3.873942105	0	18.1471	12
M6061T6B0.375X02.000	1.481231579	0	21.8023	6
M6061T6B0.375X03.000	0.377878947	0	9.5	6
M6061T6B0.500X02.000	3.410557895	0	27.2834	10
M6061T6B0.500X05.000	29.01210526	0	41.7636	12
M6061T6B0.500X06.000	21.61024211	0	40.4384	24
M6061T6B0.625X02.500	6.974568421	0	20.9814	8
M6061T6B0.750X00.250	5.619157895	0	16.5	12
M6061T6B0.750X00.750	0.49820632	0	11.11095	24
M6061T6B0.750X03.000	2.28E-02	0	49.9381	20
M6061T6B00750X00.125	20.37514211	0	118.0243	80
M6061T6B1.000X02.000	14.20269474	0	40.8503	40
M6061T6B1.000X02.500	7.97E-02	0	35.14	12
M6061T6B1.000X04.000	57.74618421	0	50.4007	12
M6061T6B1.000X06.000	2.325987994	0	12	6
M6061T6B1.000X12.000	19.78970526	0	26.819	12
M6061T6B1.000X15.000	4.93	0	29.59	24
M6061T6B1.500X01.250	0.272605258	0	18.72035	12
M6061T6B2.000X01.250	16.06218418	0	22.621	20 208t
M6061T6B2.000X04.500	2.495783684	0	10.86631	6
M6061T6B2.500X01.500	0.304855789	0	32.68334	12
M6061T6B2.500X03.500	0.919034268	0	8.3	8
M6061T6B30000X01.500	1.109783411	0	19.1289	20
M6061T6H1.000	0.260105263	0	16.464	12
M6061T6R0.625	60.56117368	0	24.1	30 606t
M6061T6R0.750	17.36809474	0	39.88984211	40
M6061T6R1.000	1.790926316	0	25.514	12
M6061T6R1.250	0.405255263	0	50.21805	12
M6061T6S.125	4.09740035	0	71.26	96
M6061T6T0.250W.035	1.05E-07	0	15.263158	10
M6061T6T0.375W.035	8.794183516	0	235.095716	100
M6061T6T0.500W.058	27.08263158	0	138.5	80
M6061T6T1.000W.188	28.56362256	0	50.737418	40
M6061T6T1.500W.125	3.026315789	0	29.5	12
M6061T6T1.750W.065	1.956842105	0	31.959	12
M6061T6T3.500W.375	13.42105263	0	8.5	0
M6061T6T5.000W.125	5.757889474	0	24.3754	6
M6061T6TR4.0X2.0W125	19.80520526	0	25	6
M6061T6TS0.750W.062	85.33741579	0	134.39009	100
M7075T6B1.000X1.000	0.492284592	0	12	10
M7075T6B1.500X1.500	0.221021053	0	16.8526	6
M7075T73B4.000x4.000	3.856142105	0	14.8568	6
M7885/2-4-3	12	0	441	80
M7885/3-4-4	16	0	183	100
M7885/3-4-5	3	0	71	50
M81714/2-DC1	2	0	4	4

304S 168A

M1010B0.500X03.000	8.16	0	0	0
M1010R0.375	0.36	0	10	0
M1018TR1.250W.109	3.684210526	0	14.21	0
M12883/45-01	2	0	4	4
M174B0.500X02.000	9.11E-02	0	54.4477	20
M174B1.250X02.000	5.074593676	0	16.07765	20
M174B2.000X01.500	2.412105263	0	10.67	12
M174PH-H900B3.937X4.750	15.00432316	0	19.37915	8
M174PH-H900R1.000	91.97729118	0	11.62	4
M174PH-H900R1.375	92.49978947	0	34.4	4
M2024T3A1.0 X 1.0 X.125	0.2	0	10.2	0
M2024T3A1.50X2.00X.125	3.16E-07	0	11.789474	0
M2024T3S.040	330.0948368	0	165.6295	64
M22759/16-229	1.211594737	0	198.9	100
M2650-6	27.84286749	0	63.44736844	30
M303B0.500X0.500	0.300063158	0	10.6908	6
M303B1.000X03.000	1.145	0	6.905	0
M303B1.000X2.000	1.828604737	0	14.87421	6
M303B1.500X03.000	0.121647368	0	2.5427	6
M303B2.000X1.750	3.639591579	0	12.11646	10
M303H0.625	0.315789474	0	0	0
M303R0.313	6.14E-02	0	22.13	12
M303R0.375	5.159210526	0	34.225	12
M303R0.500	2.118870063	0	16.377	20
M303R0.750	83.33952653	0	33.840216	60
M304B0.500X2.500	421.6506579	0	44.06	12
M304EX0.75-16F	556.1476447	0	925.386733	192
M304R.500	3.75	0	34.384	24
M304R1.00	8.210526316	0	0	0
M304R0.750	17.30484211	0	47.63703684	24
M304S12GA	66.13530015	0	187.4	32
M304TR0.375W.035	3.16E-02	0	53.5	6
M304TR0.375W.065	8.72E-02	0	17.5387	12
M304TR0.750W.065	1.212994737	0	48.5	24
M304TR1.000W.049	0.402610421	0	21.704742	24
M304TR1.125W.065	4.842105263	0	20	12
M304TS0.500W.049	85.48029538	0	78.90374579	200
*M304TS0.750W.049	228.9817499	0	224.8707578	120
M4130NB0.500X03.000	46.31368421	0	24	40
M4130NR0.375	0.293157895	0	11.61	0
M4130NR0.750	1.89E-02	0	12.9	6
M4130NT0.500W.049	10.25157895	0	58.283	10
M4130NT0.750W.049	56.66321053	0	105.5417	30
M4130NT1.000W.049	1.120723684	0	21.03125	12
M4130NT1.000W.120	1.828736842	0	15.84	12
M6061T6A.750W0.625	1	0	0	0
M6061T6A1.000W.125	18.88032159	0	49.00474264	0

Chantal Lavoie

From: Linda Lacelle <llacelle@dartaero.com>
Sent: March 18, 2011 8:13 AM
To: 'Chantal Lavoie'
Subject: pls order

M6061T6T3.500W.375 - 12'

Thank You,
Linda Lacelle
Production Manager
Dart Aerospace Ltd
Hawkesbury, ON
Phone: 613 632 9577
Fax: 613 632 1053
Cell: 613 676 1655

TRANSMISSION VERIFICATION REPORT

TIME : 03/28/2011 15:25
NAME :
FAX :
TEL :
SER.# : F9N212739

DATE, TIME
FAX NO./NAME
DURATION
PAGE(S)
RESULT
MODE

03/28 15:24
19057389033
00:00:43
03
OK
STANDARD
ECM

B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

No: PEC 703912
 Ship Date 30Mar11 at 15:40 From PFW
 Probill
 Via TRANSFER TRUCK
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-315952- 1 Your PO # 13724
 ALUMINUM PLATE 6061-T651
 1.250" THICK X 2.0000" X 144.0000"

Heat Number Tag No
 534495A7 179368

Quantity PCS Wt LBS
 4.00 SFT 2 75

2) Our Order PEC-315952- 2 Your PO # 13724
 STAINLESS STEEL SHEET 304-2B
 .0600 Nom X 48.0000" X 96.0000"

Heat Number Tag No
 YU162515 178860

Quantity PCS Wt LBS
 320.00 SFT 10 802

TOTAL: Tags PCS LBS
 2 12 877

Heat Number *** Chemical Analysis ***
 534495A7
 YU162515

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT **

TOTAL (1,2) 1 BDL, 1 SKID GW. 930 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

No: PEC 703912
 Ship Date 30Mar11 at 15:40 From PFW
 Probill
 Via TRANSFER TRUCK
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-315952- 1 Your PO # 13724
 ALUMINUM PLATE 6061-T651

1.250" THICK X 2.0000" X 144.0000"

Heat Number 534495A7 Tag No 179368

Quantity 4.00 SFT PCS 2 MTR'S Wt LBS 75

2) Our Order PEC-315952- 2 Your PO # 13724
 STAINLESS STEEL SHEET 304-2B

.0600 Nom X 48.0000" X 96.0000"

Heat Number YU162515 Tag No 178860

Quantity 320.00 SFT PCS 10 MTR'S Wt LBS 802

TOTAL: Tags 2 PCS 12 LBS 877

Heat Number
 534495A7
 YU162515

*** Chemical Analysis ***

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT **

TOTAL (1,2) 1 BDL, 1 SKID GW. 930 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA .

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.
 RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

Ship To: (1)
 DART AEROSPACE

No: PEC 703912
 Ship Date 30Mar11 at 15:40 From PFW
 Probill
 Via TRANSFER TRUCK
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

===== B I L L O F L A D I N G =====
 CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
 **** TEL. 800-926-2600 ****

 * WE STOCK STAINLESS STEEL *
 * PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

 ***PLEASE NOTE A \$15.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER AS OF DEC 8/08.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
 RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
 TVQ/GST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

Ship From: THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

No: PEC 703912
Ship Date 30Mar11 at 15:40 From PFW
Probill
Via TRANSFER TRUCK
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

=====

B I L L O F L A D I N G
*** 9:00 AM TO 4:00 PM ***

CONCORD, ONT.*
**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$15.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER AS OF DEC 8/08.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.
RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
TVQ/GST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

PO: 84-11724

HLPEC 2009-2-001

Page 1/2

ALUMINUM PLATE 6061 T651
126" THICK X 2000" X 144.0000"
PART NO:

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Serial No:

SHIP TO:

THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF RD.
CONCORD, ON, CA L4K 5C6

**KAISER
ALUMINUM**

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4214848

SOLD TO:

THYSSENKRUPP MATERIALS NA
MATERIALS CA LTD.
2821 LANGSTAFF ROAD
CONCORD, ON, CA L4K 5C6

CUSTOMER PO NUMBER: PEC-227082	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RINLOAD: 101963/3	GOVT CONTRACT NUMBER:
KAISER ORDER NO: 1109881	LINE ITEM: 1	SHIP DATE: 11-JAN-2011	ALLOY: 6061	CLAD: BARE
WEIGHT SHIPPED: 4400 LB	QUANTITY: 5 PCS EST.	B/L NUMBER: 2030399	GAUGE: 1.2500 IN	DIAMETER/WIDTH: 48.500 IN
				LENGTH: 144.500 IN
				TEMPER: T651
				PRODUCT DESCRIPTION: KaiserSelect® Precision Plate

Certified Specifications

AMS 4027/RevN

ASME SB 209/Rev2004

ASTM B 209/Rev07

Test Code: 1511

Test Results

Lot: 534485A7 Cast 806

Drop 98

Ingot 2

(ASTM E8/B557)
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	47.1 : 47.8 (325 : 330)	42.8 : 43.0 (294 : 296)	14.7 : 14.7

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.68	0.5	0.27	0.06	1.0	0.16	0.21	0.01	0.01	0.00	TOT 0.04

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
6061 MIN	0.40	0.0	0.15	0.00	0.8	0.04	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.16	0.05	0.05	TOT	0.15

Aluminum Remainder

TEST NOTES

6061 sheet or plate certified to AMS 4026, AMS 4026, or AMS
4027 also meets applicable requirements of AMS-QQ-A-250/11
Rev.A.

THYSSENKRUPP MATERIALS NA**Certificate of Mill Test Results**

DART AEROSPACE

PO 04-13724

BL-PFG-70312201

30Mar11

ALUMINUM PLATE 6061 T524
1250" THICK X 10000" X 1440000"We certify that this is a true copy of the report
furnished for the purpose of the material or data
resulting from these tests in approved form.

Sincerely,

Pg 2/2

PART NO

**KAISER
ALUMINUM**

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

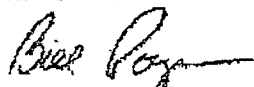
CERTIFIED TEST REPORT

Serial Number

4214848

CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA OR A QUALIFYING COUNTRY PER DARS 225.972-1461, WAS MANUFACTURED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF DARS 252.225 FOR DOMESTIC CONTENT. THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE FURNISHED AS A FELONY UNDER FEDERAL LAW, (50 USC 12003 CERTIFIC).

BILL POYNOR, LABORATORIES SUPERVISOR


Page 2 of 2

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET 304-2B
0600 Nom X 48.0000 X 96.0000

PARENO

PO/NO 13724

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed By:

Certificate of Mill Test Results

BLPEC 00912-002

304Mar11

Pg 1/1

MILL TEST CERTIFICATES

YIH MAU CORP.

INVOICE NO. : M10M327-1
COMMODITY : PRIME COLD ROLLED STAINLESS STEEL SHEETSPECIFICATION : AISI 304 ASTM A240/A480 and ASME SA210/SA480
CUSTOMER : OLBERT METAL SALES LIMITEDTSS SHIH AN RD LIAO TUNG HSANG
KAOHSIUNG TAIWAN R.O.C.
TEL: 8672285 FAX: 8673006
CERTIFICATE NO: F10M327-1
DATE OF ISSUE: 10/06/2010

SIZE	NO.	Weight (N.W.)		Heat No.	ID NO.	Physical Properties Tensile Test ($F_{0.2}=50\mu\text{m}$)					Chemical Composition (%)							
		KGS	LBS			Y.S. ($F_{0.2}$)	T.S. ($F_{0.2}$)	EL. (%)	DRH	IV	C (%)	Si (%)	Mn (%)	P (%)	S (%)	Ni (%)	Cr (%)	N (%)
304 2B PI																		
110A X 48" X 120"	1	1,028	3,589	YU162009	96861567C-12	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7
110A X 48" X 120"	1	1,029	3,589	YU162009	96861567C-12	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7
100A X 48" X 96"	1	1,710	3,770	YU102516	98564022BB-3	298	624	57	79	152	5.1	46	110	30	3	804	1820	2.7
160A X 48" X 120"	1	1,866	3,671	YU162169	98562953A-2	292	617	60	79	151	5	54	127	29	9	803	1812	2.6
180A X 48" X 120"	1	1,250	2,976	YU267404	98561403B-6	295	657	55	85	172	4.5	51	125	36	6	811	1830	2.9
180A X 48" X 120"	1	1,238	2,950	YU267404	98561403B-7	295	657	55	85	172	4.5	51	125	36	6	811	1830	2.9
180A X 48" X 120"	1	1,334	2,941	YU162157	97563036B-1	308	647	54	86	175	4	44	106	31	5	807	1822	3.4
200A X 48" X 96"	1	1,059	3,409	YU267562	98562955A-5	315	672	56	86	176	4.3	48	114	37	1	805	1825	3.4
200A X 48" X 120"	1	1,580	3,490	YU267562	98562955A-3	315	672	56	86	176	4.3	48	114	37	1	805	1825	3.4
200A X 60" X 120"	1	1,630	3,594	YU161329	98565697B-2221	292	629	54	84	168	5.1	41	108	37	6	809	1818	2.5
200A X 60" X 120"	1	1,630	3,594	YU161329	98565697B-2222	292	629	54	84	168	5.1	41	108	37	6	809	1818	2.5
220A X 48" X 96"	1	1,700	3,746	YU161154	98565839A-2	291	630	55	85	170	4.3	49	122	37	1	806	1807	2.3
220A X 48" X 120"	1	1,652	3,642	YU161154	98565839A-3	291	630	55	85	170	4.3	49	122	37	1	806	1807	2.3
240A X 48" X 120"	1	1,336	2,945	YU267156	98569278B-1	281	616	51	86	171	1.6	37	104	31	9	804	1821	3.2
240A X 48" X 120"	1	1,336	2,945	YU267156	98569278B-2	281	616	51	86	171	1.6	37	104	31	9	804	1821	3.2
240A X 48" X 120"	1	1,336	2,945	YU267156	98569278B-3	281	616	51	86	171	1.6	37	104	31	9	804	1821	3.2
304 NO.4 LASER																		
110A X 48" X 96"	1	1,046	3,629	YU162009	98561567B-111	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7
110A X 48" X 120"	1	1,041	3,585	YU162009	98561567B-112	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7
110A X 48" X 120"	1	1,630	3,594	YU162009	98561567B-113	313	654	53	87	179	4.6	52	119	37	3	806	1804	2.7
180A X 48" X 120"	1	1,890	3,726	YU162547	98564091A-11	292	632	56	82	160	4.3	47	110	32	10	804	1817	2.5
180A X 48" X 120"	1	1,690	3,726	YU162547	98564091A-12	282	632	56	82	160	4.3	47	110	32	10	804	1817	2.5
220A X 48" X 96"	1	1,746	3,849	YU161311	98565839A-12	294	659	53	85	172	4.8	48	113	36	4	802	1822	2.4
220A X 48" X 120"	1	1,718	3,788	YU161311	98565839A-13	294	650	53	85	173	4.8	48	113	36	4	802	1822	2.4
240A X 48" X 96"	1	1,004	3,596	YU162039	98569278B-15	295	665	55	86	174	4.8	49	123	37	11	804	1820	1.6
240A X 48" X 120"	1	1,596	3,523	YU162039	98569278B-14	295	665	55	86	174	4.8	49	123	37	11	804	1820	1.6

TOTAL: 25 39,380 86,820

Remarks: NO MERCURY CONTAMINATION

Send test report for all Heat NO.

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS
BEEN MADE IN ACCORDANCE WITH THE RULES OF THE MILL CERTIFICATE

YIH MAU CORP.

Manager of Quality Assurance Section

29Mar11 07:54 S A L E S A C K N O W L E D G M E N T
 Sold By:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

No: PEC ST-315952

Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS
 Frt PREPAID
 Con 96294
 Slp STAN IVERS (905-532-1350)

Ord 29Mar11 Due30Mar11
 Via TRANSFER TRUCK FOB CONCORD
 PO/Ref 13724
 Tel 613-632-9577 Fax 613-632-1053

S A L E S A C K N O W L E D G M E N T SO No PEC ST-315952
 Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice

1 ALUMINUM PLATE 6061-T651	2 PCS	75 LBS
1.250" THICK X 2.0000" X 144.0000"		
SPECIFICATIONS >>>		
Ge Tol + 0.0000 - 0.0000 Pc/Tag 2		
WthTol + 0.0630 - 0.0000 Wt/Skd		
LthTol + 0.0000 - 0.0000 Ty Pk		
MATERIAL	2 PCS @	124.0000 EA 248.00
ENERGY SURCHARGE		15.0000 LOT 15.00

2 STAINLESS STEEL SHEET 304-2B	10 PCS	802 LBS
.0600 Nom X 48.0000" X 96.0000"		
MATERIAL	802 LBS @	2.1100 LBS 1,692.22

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

** CUSTOMER PICK-UP HRS / 9:00 AM TO 4:00 PM **

*** TEL. 800-926-2600 ***

* WE STOCK STAINLESS STEEL!!!! *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$15.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER AS OF DEC. 8./08.***

Order Totals:		2 Items,	877 LBS

Material	Processing	Freight	Other
1,940.22			15.00
Taxes		ORDER AMT	
254.18		2,209.40	

Taxes: ONHSTS		254.18	

29Mar11 12:55 SALES ACKNOWLEDGMENT No: PEC ST-316219

Sold By:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS
 Frt PREPAID
 Con 96294
 Slip STAN IVERS (905-532-1350)

Ord 29Mar11 Due31Mar11
 via VIM TRANSFER TRUCK FOB CONCORD
 PO/Ref 13724
 Tel 613-632-9577 Fax 613-632-1053

SALES ACKNOWLEDGMENT SO No PEC ST-316219
 Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice

1 ALUMINUM ROUND BAR 6061T6 COLD FINISH 5 PCS 22 LBS
 .625" DIA X 144.0000"
 MATERIAL 5 PCS @ 30.0000 EA 150.00

****ADD ON TO 315952 SUR-CHARGE PAID*****

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

** CUSTOMER PICK-UP HRS / 9:00 AM TO 4:00 PM **

*** TEL. 800-926-2600 ***

* WE STOCK STAINLESS STEEL!!!! *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$15.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER AS OF DEC. 8./08.***

Order Totals: 1 Items 22 LBS

 Material Processing Freight Other Taxes ORDER AMT
 150.00 19.50 169.50

 Taxes: ONHSTS 19.50

29Mar11 12:57 S A L E S A C K N O W L E D G M E N T No: PEC ST-316221
 Sold By:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 889 9444 Fax: 9057389033

Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Ord 29Mar11 Due07Apr11
 Frt PREPAID Via VIM TRANSFER TRUCK FOB CONCORD
 Con 96294 PO/Rel 13724
 Slp STAN IVERS (905-532-1350) Tel 613-632-9577 Fax 613-632-1053

===== S A L E S A C K N O W L E D G M E N T SO No PEC ST-316221
 Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice
 =====

1 STAINLESS STEEL FLAT BAR 17-4 HRAP	3 PCS	302 LBS
1.25" X 2.00" X 144.0000"		
MATERIAL	302 LBS @	3.8000 LBS 1,147.60

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

** CUSTOMER PICK-UP HRS / 9:00 AM TO 4:00 PM **

*** TEL. 800-926-2600 ***

* WE STOCK STAINLESS STEEL!!!! *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$15.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER AS OF DEC. 8./08.***

Order Totals:		1 Items	302 LBS

Material	Processing	Freight	Other
1,147.60			
Taxes: ONHSTS		149.19	ORDER AMT
			1,296.79

03/29/11
12:58 PM EDT

STELfax

From: THYSSENKRUPP MATERIALS NA
STAN IVERS
Tel: 905 669 9444
Fax: 905 738 9033

To: DART AEROSPACE
Attn: 96294
Tel: 613-632-9577
Fax: 613-632-1053
Number of Pages: 2

Subject: Sales Acknowledgement
